

# results of MLAST

## BLASTP 2.2.9 [May-01-2004]

### Reference:

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1085452435-15497-118616244323.BLASTQ3

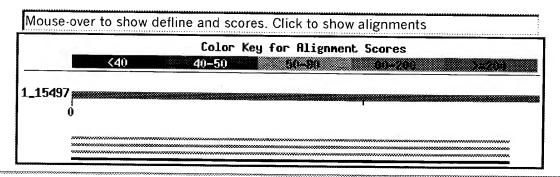
Query=

(16 letters)

If you have any problems or questions with the results of this search please refer to the  ${\tt BLAST}$  FAQs

Taxonomy reports

## **Distribution of 653 Blast Hits on the Query Sequence**



Sequences producing significant alignments:	Score (bits)	E Value	
gi   601931   gb   AAA57153.1   neurofilament-H gi   226213   prf     1501343A   neurofilament protein NF-H C term gi   33302611   sp   P12036   NFH_HUMAN   Neurofilament triplet H pro	51 51	3e-06 3e-06 3e-06	2788
gi 27529742   dbj   BAA74868.2   KIAA0845 protein [Homo sapiens] gi 284668   pir   B43427 neurofilament protein H form H2 (repe gi 284667   pir   A43427 neurofilament triplet H1 protein - ra	51 51 51	3e-06 3e-06	
gi   14250426   gb   AAH08648.1   Unknown (protein for IMAGE:38662 gi   108359   pir     S02571   neurofilament triplet protein H - pig gi   24020878   gb   AAN40837.1   heavy neurofilament protein [Can	51 51 51 51	3e-06 3e-06 3e-06 3e-06	IJ

gi 71549 pir   QFHUH neurofilament triplet H protein - human	<u>51</u>	3e-06
gi 32483416 ref NP_066554.2 neurofilament, heavy polypepti	<u>51</u>	3e-06
gi 29789026 ref NP_036739.1  neurofilament, heavy polypepti	47	3e-05
gi 21429606 gb AAM49796.1  heavy neurofilament NF-H [Rattus	47	3e-05
gi 205686 gb AAA41695.1  heavy neurofilament subunit	47	3e-05
gi 205680 gb AAA41692.1  high molecular weight neurofilament	47	3e-05
gi 92538 pir  S02003 neurofilament triplet H protein - rat	44	3e-04
gi 46275814 ref NP_035034.1  neurofilament, heavy polypepti	44	3e-04
gi 128127 sp P19246 NFH_MOUSE Neurofilament triplet H prote	44	3e-04
gi 28972433 dbj BAC65670.1  mKIAA0845 protein [Mus musculus]	44	3e-04
		3e-04
gi 462702 sp P16884 NFH RAT Neurofilament triplet H protein	44	3e-04 33
gi   463250   emb   CAA83229.1   Neurofilament protein, high molec gi   7428714   pir   QFPGM neurofilament triplet M protein - pig	<u>44</u> 35	3e-04 38.38 0.23
gi 33468430 emb CAD70271.1 Secp1 protein precursor [Tricho	32	1.0
gi 39586313 emb CAE66724.1 Hypothetical protein CBG12070 [	32	1.8
gi 13629976 sp 077788 NFM_BOVIN Neurofilament triplet M pro	<u>32</u>	1.8
gi   1160355   gb   AAB00542.1   UNC-89	$\frac{31}{21}$	3.3
gi 7511618 pir  T29757 protein UNC-89 - Caenorhabditis elegans gi 31209313 ref XP_313623.1  ENSANGP00000013035 [Anopheles	$\frac{31}{31}$	3.3 3.3
gi 31746683 gb AAP68958.1 Uncoordinated protein 89, isofor	31	3.3
gi 25141314 ref NP_491290.2 UNCoordinated locomotion UNC-8	31	3.3
gi 2135810 pir  I53671 neurofilament heavy subunit - human	30	4.4
gi 39589705 emb CAE66940.1 Hypothetical protein CBG12332 [	29	8.0
gi 42521813 ref NP_967193.1 TonB-like protein [Bdellovibri	<u>29</u>	8.0
gi 19075023 ref NP_586624.1  similarity to GLYPICAN-4 (HEPA gi 14549637 gb AAK66966.1  histone H1 [Bufo bufo gagarizans]	<u>29</u> 29	14 $14$
gi   4885513   ref   NP_005373.1   neurofilament 3 (150kDa medium)		307550
gi ioosis italia oosa is i ilaala bii i i i i i i i i i i i i i i i i i	28	19 🍇 🕸
gi 6003540 gb AAF00492.1 neurofilament-3 (150 kD medium) [	<u>28</u> 28	19 <b>33</b>
gi 42523806 ref NP_969186.1 conserved hypothetical protein	28 28	19 19
gi   42523806   ref   NP 969186.1   conserved hypothetical protein gi   423935   pir     A46194   neurofilament protein NF-220, high-mo	28 28 28	19 19 19
gi   42523806   ref   NP   969186.1   conserved hypothetical protein         gi   423935   pir     A46194   neurofilament protein NF-220, high-mo         gi   45682130   ref   ZP   00193566.1   COG1250: 3-hydroxyacyl-CoA d	28 28 28 28	19 19 19 19
gi   42523806   ref   NP   969186.1   conserved hypothetical protein         gi   423935   pir     A46194   neurofilament protein NF-220, high-mo         gi   45682130   ref   ZP   00193566.1   COG1250: 3-hydroxyacyl-CoA d         gi   30466260   ref   NP   848668.1   breast cancer 1, early onset [	28 28 28 28 28 27	19 19 19 19 19
gi   42523806   ref   NP   969186.1   conserved hypothetical protein         gi   423935   pir     A46194   neurofilament protein NF-220, high-mo         gi   45682130   ref   ZP   00193566.1   COG1250: 3-hydroxyacyl-CoA d	28 28 28 28	19 19 19 19
gi   42523806   ref   NP 969186.1   conserved hypothetical protein         gi   423935   pir     A46194   neurofilament protein NF-220, high-mo         gi   45682130   ref   ZP 00193566.1   COG1250: 3-hydroxyacyl-CoA d         gi   30466260   ref   NP 848668.1   breast cancer 1, early onset [         gi   20808711   ref   NP 623882.1   Sugar-binding periplasmic prot         gi   47530684   ref   YP 022033.1   conserved hypothetical protein         gi   30023179   ref   NP 834810.1   hypothetical protein [Bacillus	28 28 28 28 27 27 27 27	19 19 19 19 35 35 35 35
gi   42523806   ref   NP 969186.1   conserved hypothetical protein         gi   423935   pir     A46194   neurofilament protein NF-220, high-mo         gi   45682130   ref   ZP 00193566.1   COG1250: 3-hydroxyacyl-CoA d         gi   30466260   ref   NP 848668.1   breast cancer 1, early onset [         gi   20808711   ref   NP 623882.1   Sugar-binding periplasmic prot         gi   47530684   ref   YP 022033.1   conserved hypothetical protein         gi   30023179   ref   NP 834810.1   hypothetical protein [Bacillus         gi   13195201   gb   AAK15600.1   BRCA1 [Bos taurus]	28 28 28 28 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35
gi   42523806   ref   NP_969186.1   conserved hypothetical protein         gi   423935   pir     A46194   neurofilament protein NF-220, high-mo         gi   45682130   ref   ZP_00193566.1   COG1250: 3-hydroxyacyl-CoA d         gi   30466260   ref   NP_848668.1   breast cancer 1, early onset [         gi   20808711   ref   NP_623882.1   Sugar-binding periplasmic prot         gi   47530684   ref   YP_022033.1   conserved hypothetical protein         gi   30023179   ref   NP_834810.1   hypothetical protein [Bacillus         gi   13195201   gb   AAK15600.1   BRCA1   BRCA1 [Bos taurus]         gi   21225819   ref   NP_631598.1   putative solute binding lipopr	28 28 28 28 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35
gi   42523806   ref   NP   969186.1   conserved hypothetical protein         gi   423935   pir     A46194   neurofilament protein NF-220, high-mo         gi   45682130   ref   ZP   00193566.1   COG1250: 3-hydroxyacyl-CoA d         gi   30466260   ref   NP   848668.1   breast cancer 1, early onset [         gi   20808711   ref   NP   623882.1   Sugar-binding periplasmic prot         gi   47530684   ref   YP   022033.1   conserved hypothetical protein         gi   30023179   ref   NP   834810.1   hypothetical protein [Bacillus         gi   13195201   gb   AAK15600.1   BRCA1   Bos taurus           gi   21225819   ref   NP   631598.1   putative solute binding lipopr         gi   30265170   ref   NP   847547.1   lipoprotein, putative [Bacillu         gi   121922   sp   P06893   H1B   XENLA   HISTONE   H1B   sqi   2118972   pir	28 28 28 28 27 27 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35 35 35 35
gi       42523806   ref   NP_969186.1   conserved hypothetical protein         gi       423935   pir   A46194   neurofilament protein NF-220, high-mo         gi       45682130   ref   ZP_00193566.1   COG1250: 3-hydroxyacyl-CoA d         gi       30466260   ref   NP_848668.1   breast cancer 1, early onset [         gi       20808711   ref   NP_623882.1   Sugar-binding periplasmic prot         gi       47530684   ref   YP_022033.1   conserved hypothetical protein         gi       30023179   ref   NP_834810.1   hypothetical protein [Bacillus         gi       13195201   gb   AAK15600.1   BRCA1   Bos taurus           gi       212225819   ref   NP_631598.1   putative solute binding lipopr         gi       30265170   ref   NP_847547.1   lipoprotein, putative [Bacillu         gi       121922   sp   P06893   H1B   XENLA   HISTONE   H1B   Sgi   2118972   pir             gi       70670   pir   HSXL1B   histone   H1B   African   Clawed   frog	28 28 28 28 27 27 27 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35 35 35 35 35
gi   42523806   ref   NP   969186.1   conserved hypothetical protein gi   423935   pir     A46194   neurofilament protein NF-220, high-mo gi   45682130   ref   ZP   00193566.1   COG1250: 3-hydroxyacyl-CoA d gi   30466260   ref   NP   848668.1   breast cancer 1, early onset [ gi   20808711   ref   NP   623882.1   Sugar-binding periplasmic prot gi   47530684   ref   YP   022033.1   conserved hypothetical protein gi   30023179   ref   NP   834810.1   hypothetical protein [Bacillus gi   13195201   gb   AAK15600.1   BRCA1 [Bos taurus] gi   21225819   ref   NP   631598.1   putative solute binding lipopr gi   30265170   ref   NP   847547.1   lipoprotein, putative [Bacillu gi   121922   sp   P06893   H1B   XENLA   HISTONE   H1B   >gi   2118972   pir     gi   70670   pir   HSXL1B   histone   H1B   African clawed   frog gi   13235457   emb   CAC33750.1   Guanosine-3,5-bis (diphosphate)	28 28 28 28 27 27 27 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35 35 35 46
gi   42523806   ref   NP   969186.1   conserved hypothetical protein gi   423935   pir     A46194   neurofilament protein NF-220, high-mo gi   45682130   ref   ZP   00193566.1   COG1250: 3-hydroxyacyl-CoA d gi   30466260   ref   NP   848668.1   breast cancer 1, early onset [ gi   20808711   ref   NP   623882.1   Sugar-binding periplasmic prot gi   47530684   ref   YP   022033.1   conserved hypothetical protein gi   30023179   ref   NP   834810.1   hypothetical protein [Bacillus gi   13195201   gb   AAK15600.1   BRCA1 [Bos taurus] gi   21225819   ref   NP   631598.1   putative solute binding lipopr gi   30265170   ref   NP   847547.1   lipoprotein, putative [Bacillu gi   121922   sp   P06893   H1B   XENLA   HISTONE   H1B   >gi   2118972   pir     gi   70670   pir   HSXL1B   histone   H1B   African clawed   frog gi   13235457   emb   CAC33750.1   Guanosine-3,5-bis (diphosphate) gi   7160454   emb   CAB71173.2   calpastatin [Xenopus laevis]	28 28 28 28 27 27 27 27 27 27 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35 35 35 46 46
gi       42523806       ref       NP       969186.1       conserved hypothetical protein         gi       423935       pir       A46194       neurofilament protein NF-220, high-mo         gi       45682130       ref       ZP       00193566.1       COG1250: 3-hydroxyacyl-CoA d         gi       30466260       ref       NP       848668.1       breast cancer 1, early onset [         gi       20808711       ref       NP       623882.1       Sugar-binding periplasmic prot         gi       47530684       ref       YP       022033.1       conserved hypothetical protein         gi       30023179       ref       NP       834810.1       hypothetical protein [Bacillus         gi       13195201       gb       AAK15600.1       BRCA1	28 28 28 28 27 27 27 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35 35 35 46
gi         42523806         ref         NP_969186.1         conserved hypothetical protein           gi         423935         pir         A46194         neurofilament protein NF-220, high-mo           gi         45682130         ref         ZP_00193566.1         COG1250: 3-hydroxyacyl-CoA d           gi         30466260         ref         NP_848668.1         breast cancer 1, early onset [           gi         20808711         ref         NP_623882.1         Sugar-binding periplasmic prot           gi         47530684         ref         YP_022033.1         conserved hypothetical protein           gi         30023179         ref         NP_834810.1         hypothetical protein [Bacillus           gi         13195201         gb         AAK15600.1         BRCA1 [Bos taurus]           gi         212225819         ref         NP_847547.1         lipoprotein, putative [Bacillu           gi         130265170         ref         NP_847547.1         lipoprotein, putative [Bacillu           gi         70670         pir         HSXL1B         histone H1B - African clawed frog           gi         13235457         emb         CAC33750.1         Guanosine-3,5-bis(diphosphate)         gi           gi         13235476	28 28 28 28 27 27 27 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35 35 35 46 46 46 46 46
gi         42523806         ref         NP_969186.1         conserved hypothetical protein           gi         423935         pir         A46194         neurofilament protein NF-220, high-mo           gi         45682130         ref         ZP_00193566.1         COG1250: 3-hydroxyacyl-CoA d           gi         30466260         ref         NP_848668.1         breast cancer 1, early onset [           gi         20808711         ref         NP_623882.1         Sugar-binding periplasmic prot           gi         47530684         ref         YP_022033.1         conserved hypothetical protein           gi         30023179         ref         NP_834810.1         hypothetical protein [Bacillus           gi         13195201         gb         AAK15600.1         BRCA1         [Bos taurus]           gi         21225819         ref         NP_631598.1         putative solute binding lipopr           gi         30265170         ref         NP_847547.1         lipoprotein, putative [Bacillu           gi         70670         pir         HSXL1B         histone H1B - African clawed frog           gi         7160454         emb         CAC33750.1         Guanosine-3,5-bis (diphosphate)         gi           gi         726	28 28 28 28 27 27 27 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35 35 35 46 46 46 46 46 46
gi   42523806   ref   NP_969186.1         conserved hypothetical protein         gi   423935   pir   A46194         neurofilament protein NF-220, high-mo         gi   45682130   ref   ZP_00193566.1         COG1250: 3-hydroxyacyl-CoA d         gi   30466260   ref   NP_848668.1         breast cancer 1, early onset [         gi   20808711   ref   NP_623882.1         Sugar-binding periplasmic prot         gi   47530684   ref   YP_022033.1         conserved hypothetical protein         gi   30023179   ref   NP_834810.1         hypothetical protein [Bacillus         gi   13195201   gb   AAK15600.1         BRCA1 [Bos taurus]         gi   21225819   ref   NP_631598.1         putative solute binding lipopr         gi   30265170   ref   NP_847547.1         lipoprotein, putative [Bacillu         gi   70670   pir   HSXL1B         histone H1B - African clawed frog         gi   7160454   emb   CAC33750.1         Guanosine-3,5-bis (diphosphate)         gi   7160454   emb   CAC33635.1         Guanosine-3,5-bis (diphosphate)         gi   42453561   ref   ZP_00153468.1         hypothetical protein Rick041         gi   34580646   ref   ZP_00142126.1         hypothetical (p)ppGpp 3-pyro         gi   39595873   emb   CAE67376.1         Hypothetical protein CBG12854 [	28 28 28 28 27 27 27 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35 35 35 46 46 46 46 46 46 46
gi         42523806         ref         NP_969186.1         conserved hypothetical protein           gi         423935         pir         A46194         neurofilament protein NF-220, high-mo           gi         45682130         ref         ZP_00193566.1         COG1250: 3-hydroxyacyl-CoA d           gi         30466260         ref         NP_848668.1         breast cancer 1, early onset [           gi         20808711         ref         NP_623882.1         Sugar-binding periplasmic prot           gi         47530684         ref         YP_022033.1         conserved hypothetical protein           gi         30023179         ref         NP_834810.1         hypothetical protein [Bacillus           gi         13195201         gb         AAK15600.1         BRCA1         [Bos taurus]           gi         21225819         ref         NP_631598.1         putative solute binding lipopr           gi         30265170         ref         NP_847547.1         lipoprotein, putative [Bacillu           gi         70670         pir         HSXL1B         histone H1B - African clawed frog           gi         7160454         emb         CAC33750.1         Guanosine-3,5-bis (diphosphate)         gi           gi         726	28 28 28 28 27 27 27 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35 35 35 46 46 46 46 46 46
gi   42523806   ref   NP_969186.1           conserved hypothetical protein           gi   423935   pir   A46194           neurofilament protein NF-220, high-mo           gi   45682130   ref   ZP_00193566.1           COG1250: 3-hydroxyacyl-CoA d           gi   30466260   ref   NP_848668.1           breast cancer 1, early onset [           gi   20808711   ref   NP_623882.1           Sugar-binding periplasmic prot           gi   47530684   ref   YP_022033.1           conserved hypothetical protein           gi   30023179   ref   NP_834810.1           hypothetical protein [Bacillus           gi   13195201   gb   AAK15600.1           BRCA1 [Bos taurus]           gi   21225819   ref   NP_631598.1           putative solute binding lipopr           gi   30265170   ref   NP_847547.1           lipoprotein, putative [Bacillu           gi   121922   sp   P06893   H1B_XENLA           HISTONE H1B   sgi   2118972   pir               gi   70670   pir   HSXL1B           histone H1B   African clawed frog           gi   13235457   emb   CAC33750.1           Guanosine-3,5-bis (diphosphate)             gi   13235476   emb   CAC33635.1           Guanosine-3,5-bis (diphosphate)             gi   34580646   ref   ZP_00153468.1           hypothetical protein Rick041             gi   34580646   ref   ZP_00142126.1           hypothetical protein CBG12854 [           gi   39595873   emb   CAC43460.1           Hyp	28 28 28 28 27 27 27 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35 35 35 46 46 46 46 46 46 46 46 46
gi   42523806   ref   NP   969186.1           conserved hypothetical protein           gi   423935   pir     A46194           neurofilament protein NF-220, high-mo           gi   45682130   ref   ZP   00193566.1           COG1250: 3-hydroxyacyl-CoA d           gi   30466260   ref   NP   848668.1           breast cancer 1, early onset [           gi   20808711   ref   NP   623882.1           Sugar-binding periplasmic prot           gi   47530684   ref   YP   022033.1           conserved hypothetical protein [Bacillus           gi   30023179   ref   NP   834810.1           hypothetical protein [Bacillus           gi   3195201   gb   AAK15600.1           BRCA1 [Bos taurus]           gi   21225819   ref   NP   631598.1           putative solute binding lipopr           gi   30265170   ref   NP   847547.1           lipoprotein, putative [Bacillu           gi   70670   pir   HSXL1B           histone   H1B   African clawed   frog           gi   7160454   emb   CAC33750.1           Guanosine-3,5-bis (diphosphate)         gi   13235476   emb   CAC33635.1           Guanosine-3,5-bis (diphosphate)         gi   34580646   ref   ZP   00153468.1           hypothetical   protein   Rick041           gi   34580646   ref   ZP   00142126.1           hypothetical   protein   CBG12854 [         gi   14599407   emb   CAC43460.1           probable   major   surface   glycopro           gi   47228946   emb   CAC909461.1           unnamed   protein   product   Tetrao	28 28 28 28 27 27 27 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35 35 35 46 46 46 46 46 46 46 46 46 46 46 46 46
gi   42523806   ref   NP_969186.1           conserved hypothetical protein           gi   423935   pir   A46194           neurofilament protein NF-220, high-mo           gi   45682130   ref   ZP_00193566.1           COG1250: 3-hydroxyacyl-CoA d           gi   30466260   ref   NP_848668.1           breast cancer 1, early onset [           gi   20808711   ref   NP_623882.1           Sugar-binding periplasmic prot           gi   47530684   ref   YP_022033.1           conserved hypothetical protein [Bacillus           gi   30023179   ref   NP_834810.1           hypothetical protein [Bacillus           gi   3195201   gb   AAK15600.1           BRCA1 [Bos taurus]           gi   21225819   ref   NP_631598.1           putative solute binding lipopr           gi   30265170   ref   NP_847547.1           lipoprotein, putative [Bacillu           gi   70670   pir   HSXL1B           histone H1B - African clawed frog           gi   73235457   emb   CAC333750.1           Guanosine-3,5-bis (diphosphate)           gi   7160454   emb   CAC33635.1           Guanosine-3,5-bis (diphosphate)           gi   34580646   ref   ZP_00153468.1           hypothetical protein Rick041           gi   34580646   ref   ZP_0016314           similarity to (p)ppGpp 3-pyrop           gi   39595873   emb   CAC43460.1           probable major surface glycopro           gi   47228946   emb   CAC34460.1           probable major surface glycop	28 28 28 28 27 27 27 27 27 27 27 27 27 27	19 19 19 19 35 35 35 35 35 35 35 46 46 46 46 46 46 46 46 46 46 46 46 46

gi 8163642 gb AAF73778.1 surface protein PspC [Streptococc gi 6469853 gb AAF13459.1 unknown [Streptococcus pneumoniae] gi 8163676 gb AAF73796.1 surface protein PspC [Streptococc gi 8163720 gb AAF73822.1 surface protein PspC [Streptococc gi 8163657 gb AAF73786.1 surface protein PspC [Streptococc gi 2981173 gb AAC06245.1 neurofilament medium subunit [Ser gi 8163695 gb AAF73807.1 surface protein PspC [Streptococc gi 2121918 sp P06892 H1A_XENLA HISTONE H1A >gi 64775 emb CAA gi 2511705 emb CAA71783.1 sigA binding protein [Streptococ	27 27 27 27 27 27 27 27 27 27 27	62 62 62 62 62 62 62 62 62	
gi 38085577   ref   XP 359324.1   similar to KIAA0819 protein [M gi 8163701   gb   AAF73810.1   surface protein PspC [Streptococc gi 46433713   gb   EAK93144.1   hypothetical protein CaO19.6126 gi 8163680   gb   AAF73798.1   surface protein PspC [Streptococc gi 21398433   ref   NP 654418.1   hypothetical protein predicted gi 15901997   ref   NP 346601.1   choline binding protein A [Str gi 128146   sp   P16053   NFM CHICK   Neurofilament triplet M prote gi 70669   pir   HSXL1A   histone H1A - African clawed frog gi 14718664   gb   AAK72978.1   choline-binding protein A CbpA [ gi 14718658   gb   AAK72975.1   choline-binding protein A CbpA [	27 27 27 27 27 27 27 27 27 27 27	62 62 62 62 62 62 62 62 62 62	
gi   63686   emb   CAA29073.1   NF-M c-terminus [Gallus gallus]         gi   729671   sp   P40280   H2A_MAIZE       Histone H2A >gi   7439704   pir             gi   31232261   ref   XP_318672.1   ENSANGP00000010373 [Anopheles       gi   10720231   sp   080333   POR_MARPA   Protochlorophyllide reducta         gi   45914575   ref   ZP_00196729.1   COG3422 : Uncharacterized con       gi   15239648   ref   NP_200257.1   wound-responsive protein-relat         gi   23027642   ref   ZP_00066080.1   COG2207 : AraC-type DNA-bindi       gi   46188546   ref   ZP_00124737.2   hypothetical protein Psyr021         gi   39597796   emb   CAE68488.1   Hypothetical protein CBG14291 [       gi   5834783   emb   CAB55338.1   hypothetical protein [Yarrowia 1         gi   19074182   ref   NP_584788.1   hypothetical protein [Encephal	27 26 26 26 26 26 26 26 26 26 26	62 84 84 84 84 84 84 84	
gi   10437669   dbj   BAB15083.1   unnamed protein product [Homo s gi   34870062   ref   XP 221810.2   similar to CD209 antigen; dend	<u>26</u> <u>26</u>	112 112	I
gi   12858661   dbj   BAB31400.1         unnamed protein product [Mus mu         gi   13384730   ref   NP_079640.1         RIKEN cDNA 1110005A23 [Mus mus         gi   47198672   emb   CAF93883.1         unnamed protein product [Tetrao	26 26 26	112 112 112	
gi   33667044   ref   NP_056244.2         tarsh protein [Homo sapiens] >         gi   45199188   ref   NP_986217.1         AFR669Wp [Eremothecium gossypi         gi   21357739   ref   NP_651601.1         CG5520-PA [Drosophila melanoga	26 26 26	112 112 112	

### Alignments

# Get selected sequences Select all Deselect all

>gi | 601931 | gb | AAA57153.1 | neurofilament-H Length = 511

Score = 50.7 bits (112), Expect = 3e-06 Identities = 16/16 (100%), Positives = 16/16 (100%)

Query: 1 AKSPVKEEAKSPEKAK 16 AKSPVKEEAKSPEKAK

Sbjct: 348 AKSPVKEEAKSPEKAK 363

```
Score = 50.7 bits (112), Expect = 3e-06
Identities = 16/16 (100%), Positives = 16/16 (100%)
Query: 1
         AKSPVKEEAKSPEKAK 16
          AKSPVKEEAKSPEKAK
Sbjct: 328 AKSPVKEEAKSPEKAK 343
Score = 50.7 bits (112), Expect = 3e-06
Identities = 16/16 (100%), Positives = 16/16 (100%)
Query: 1
          AKSPVKEEAKSPEKAK 16
          AKSPVKEEAKSPEKAK
Sbjct: 308 AKSPVKEEAKSPEKAK 323
Score = 50.7 bits (112), Expect = 3e-06
Identities = 16/16 (100%), Positives = 16/16 (100%)
Query: 1
          AKSPVKEEAKSPEKAK 16
          AKSPVKEEAKSPEKAK
Sbjct: 294 AKSPVKEEAKSPEKAK 309
Score = 50.7 bits (112), Expect = 3e-06
Identities = 16/16 (100%), Positives = 16/16 (100%)
          AKSPVKEEAKSPEKAK 16
Query: 1
          AKSPVKEEAKSPEKAK
Sbjct: 274 AKSPVKEEAKSPEKAK 289
Score = 50.7 bits (112), Expect = 3e-06
Identities = 16/16 (100%), Positives = 16/16 (100%)
          AKSPVKEEAKSPEKAK 16
Query: 1
          AKSPVKEEAKSPEKAK
Sbjct: 260 AKSPVKEEAKSPEKAK 275
Score = 50.7 bits (112), Expect = 3e-06
Identities = 16/16 (100%), Positives = 16/16 (100%)
Query: 1
          AKSPVKEEAKSPEKAK 16
          AKSPVKEEAKSPEKAK
Sbjct: 240 AKSPVKEEAKSPEKAK 255
Score = 50.7 bits (112), Expect = 3e-06
Identities = 16/16 (100%), Positives = 16/16 (100%)
Query: 1
          AKSPVKEEAKSPEKAK 16
```

### AKSPVKEEAKSPEKAK

Sbjct: 226 AKSPVKEEAKSPEKAK 241

Score = 50.7 bits (112), Expect = 3e-06

Identities = 16/16 (100%), Positives = 16/16 (100%)

Query: 1 AKSPVKEEAKSPEKAK 16

AKSPVKEEAKSPEKAK

Sbjct: 128 AKSPVKEEAKSPEKAK 143

Score = 45.2 bits (99), Expect = 2e-04

Identities = 14/14 (100%), Positives = 14/14 (100%)

Query: 1 AKSPVKEEAKSPEK 14

AKSPVKEEAKSPEK

Sbjct: 362 AKSPVKEEAKSPEK 375

Score = 45.2 bits (99), Expect = 2e-04

Identities = 15/16 (93%), Positives = 15/16 (93%)

Query: 1 AKSPVKEEAKSPEKAK 16

AKSP KEEAKSPEKAK

Sbjct: 194 AKSPEKEEAKSPEKAK 209

Score = 45.2 bits (99), Expect = 2e-04

Identities = 15/16 (93%), Positives = 15/16 (93%)

Query: 1 AKSPVKEEAKSPEKAK 16

AKSP KEEAKSPEKAK

Sbjct: 180 AKSPEKEEAKSPEKAK 195

Score = 44.3 bits (97), Expect = 3e-04

Identities = 16/22 (72%), Positives = 16/22 (72%), Gaps = 6/22 (27%)

Query: 1 AKSPVKE-----EAKSPEKAK 16

AKSPVKE EAKSPEKAK

Sbjct: 160 AKSPVKEEAKSPAEAKSPEKAK 181

Score = 41.8 bits (91), Expect = 0.002

Identities = 14/16 (87%), Positives = 15/16 (93%)